



PTO/SB/08a (07-05)

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 2

<i><b>Complete If Known</b></i>	
<i><b>Application Number</b></i>	10/772,217
<i><b>Filing Date</b></i>	February 2, 2004
<i><b>First Named Inventor</b></i>	Richard L. Giroux, et al.
<i><b>Art Unit</b></i>	3672
<i><b>Examiner Name</b></i>	William P. Neuder
<i><b>Attorney Docket Number</b></i>	WEAT/0344.P1

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

Examiner Signature	/William Neuder/	Date Considered	04/11/2007
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Substitute for form 1449A/PTO		Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<i>(Use as many sheets as necessary)</i>	
		Application Number	10/772,217
		Filing Date	February 2, 2004
		First Named Inventor	Richard L. Giroux, et al.
		Art Unit	3672
		Examiner Name	William P. Neuder
Sheet	2	of	2
		Attorney Docket Number	WEAT/0344.P1

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 6

**Complete if Known**

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<i>First Named Inventor</i>	Richard L. Giroux
<i>Art Unit</i>	3672
<i>Examiner Name</i>	William P. Neuder

Attorney Docket Number WEAT/0344.P1

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Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>3</sup> (if known)			
/WN/	A1	US-7,128,154	10-31-2006	Giroux, et al.	
	A2	US-7,117,957	10-10-2006	Metcalf, et al.	
	A3	US-7,108,084	09-19-2006	Vail, III	
	A4	US-7,108,083	09-19-2006	Simonds, et al.	
	A5	US-7,108,072	09-19-2006	Cook, et al.	
	A6	US-7,100,713	09-05-2006	Tulloch	
	A7	US-7,100,710	09-05-2006	Vail, III	
	A8	US-7,098,982	08-28-2006	McKay, et al.	
	A9	US-7,093,675	08-22-2006	Pia	
	A10	US-7,090,004	08-15-2006	Warren, et al.	
	A11	US-7,048,050	05-23-2006	Vail, III, et al.	
	A12	US-7,040,420	05-09-2006	Vail, III	
	A13	US-7,036,610	05-02-2006	Vail, III	
	A14	US-7,013,997	03-21-2006	Vail, III	
	A15	US-7,004,284	02-28-2006	Simpson, et al.	
	A16	US-6,953,098	10-11-2005	Gledhill, et al.	
	A17	US-6,941,652	09-13-2005	Echols, et al.	
	A18	US-6,926,128	08-09-2005	Baumann, et al.	
	A19	US-6,923,255	08-02-2005	Lee	
	A20	US-6,920,932	07-26-2005	Zimmerman	
	A21	US-6,857,487	02-22-2005	Galloway, et al.	
	A22	US-6,845,820	01-25-2005	Hebert, et al.	
	A23	US-6,802,374	10-12-2004	Edgar, et al.	
	A24	US-6,749,028	08-15-2004	Smith, et al.	
	A25	US-6,742,591	06-01-2004	Metcalf	
	A26	US-6,732,822	05-11-2004	Slack, et al.	
	A27	US-6,725,917	04-27-2004	Metcalf	
	A28	US-6,722,559	04-20-2004	Millar, et al.	
	A29	US-6,702,029	03-09-2004	Metcalf, et al.	
	A30	US-6,578,830	08-17-2003	Simpson, et al.	
	A31	US-6,571,868	08-03-2003	Victor	
/WN/	A32	US-6,527,049	03-04-2003	Metcalf, et al.	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/772,217
(Use as many sheets as necessary)				Filing Date	February 2, 2004
				First Named Inventor	Richard L. Giroux
				Art Unit	3672
				Examiner Name	William P. Neuder
Sheet	2	of	6	Attorney Docket Number	WEAT/0344.P1

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		
/WN/	A33	US- 6,446,323	09-10-2002	Metcalfe, et al.	
	A34	US- 6,425,444	07-30-2002	Metcalfe, et al.	
	A35	US- 6,224,112	05-01-2001	Eriksen, et al.	
	A36	US- 6,085,838	07-11-2000	Vercaemer, et al.	
	A37	US- 6,029,748	02-28-2000	Forsyth, et al.	
	A38	US- 6,021,850	02-08-2000	Wood, et al.	
	A39	US- 5,901,787	05-11-1999	Boyle	
	A40	US- 5,890,540	04-06-1999	Pia, et al.	
	A41	US- 5,791,416	08-11-1998	White, et al.	
	A42	US- 5,755,299	05-28-1998	Langford, Jr., et al.	
	A43	US- 5,718,288	02-17-1998	Bertet, et al.	
	A44	US- 5,685,369	11-11-1997	Ellis, et al.	
	A45	US- 5,611,397	03-18-1997	Wood	
	A46	US- 5,560,426	10-01-1996	Trahan, et al.	
	A47	US- 5,409,059	04-25-1995	McHardy	
	A48	US- 5,343,968	09-06-1994	Glowka	
	A49	US- 5,303,772	04-19-1994	George, et al.	
	A50	US- 5,083,608	01-28-1992	Abdrakhmanov, et al.	
	A51	US- 5,024,273	06-18-1991	Coone, et al.	
	A52	US- 4,897,840	10-06-1987	Szarka	
	A53	US- 4,613,161	09-23-1986	Brisco	
	A54	US- 4,610,320	09-09-1986	Beakley	
	A55	US- 4,588,030	05-13-1986	Blizzard	
	A56	US- 4,531,581	07-30-1985	Pringle, et al.	
	A57	US- 4,469,174	09-04-1984	Freeman	
	A58	US- 4,429,820	02-07-1984	Burkhardt, et al.	
	A59	US- 4,324,407	04-13-1982	Upham, et al.	
	A60	US- 4,319,393	03-16-1982	Pogonowski	
	A61	US- 4,288,082	09-08-1981	Setterberg, Jr.	
	A62	US- 4,159,564	07-03-1979	Cooper, Jr.	
	A63	US- 4,127,168	11-28-1978	Hanson, et al.	
/WN/	A64	US- 4,069,573	01-24-1978	Rogers, Jr., et al.	

Examiner Signature	/William Neuder/	Date Considered	04/11/2007
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				Filing Date	February 2, 2004
				First Named Inventor	Richard L. Giroux
				Art Unit	3672
				Examiner Name	William P. Neuder
Sheet	3	of	6	Attorney Docket Number	WEAT/0344.P1

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		Number - Kind Code <sup>2</sup> (if known)			
/WN/	A65	US- 3,948,321	04-08-1976	Owen, et al.	
	A66	US- 3,811,707	10-14-1975	Minakov, et al.	
	A67	US- 3,818,734	06-25-1974	Bateman	
	A68	US- 3,776,307	12-04-1973	Young	
	A69	US- 3,712,376	01-23-1973	Owen, et al.	
	A70	US- 3,621,910	11-23-1971	Sanford, et al.	
	A71	US- 3,467,180	09-16-1969	Pensotti	
	A72	US- 3,195,646	07-20-1965	Brown	
	A73	US- 3,087,546	04-30-1963	Woolley	
	A74	US- 2,898,971	08-11-1959	Hempel	
	A75	US- 2,383,214	08-21-1945	Prout	
	A76	US- 2,345,308	03-28-1944	Wallace	
	A77	US- 2,344,120	03-14-1944	Baker	
	A78	US- 2,216,226	10-01-1940	Bumpous	
	A79	US- 2,214,226	09-10-1940	English	
	A80	US- 2,102,555	12-14-1937	Dyer	
	A81	US- 1,830,825	10-17-1933	Raymond	
	A82	US- 1,851,289	03-29-1932	Owen	
	A83	US- 1,597,212	08-24-1928	Spengler	
	A84	US- 1,569,729	01-12-1926	Duda	
	A85	US- 1,561,418	11-10-1925	Duda	
	A86	US- 1,545,039	07-07-1925	Deavers	
	A87	US- 1,459,990	06-26-1923	Reed	
	A88	US- 1,324,303	12-09-1919	Carmichael	
	A89	US- 761,518	05-31-1904	Lykken	
	A90	US- 2005/0183892	08-25-2005	Oldham, et al.	
	A91	US-2005/0152749	07-14-2005	Anres, et al.	
	A92	US- 2004/0238218	12-02-2004	Runia, et al.	
	A93	US- 2004/0060700	04-01-2004	Vert, et al.	
	A94	US- 2004/0011568	01-22-2004	Lee	
	A95	US- 2002/0166668	11-14-2002	Metcalfe, et al.	
/WN/	A96	US- 2002/0145281	10-10-2002	Metcalfe, et al.	

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		<i>Attorney Docket Number</i>	WEAT/0344.P1

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/WN/	A97	US- 2001/0045284	11-29-2001	Simpson, et al.	
/WN/	A98	US- 2001/0040054	11-15-2001	Haugen, et al.	
/WN/	A99	US-2001/0000101	04-05-2001	Lovato, et al.	
	A100	US-			
	A101	US-			
	A102	US-			
	A103	US-			
	A104	US-			
	A105	US-			

Examiner Signature	/William Neuder/	Date Considered	04/11/2007
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (# known)				
/WN/	B1	GB 2 396 375	06-23-2004	Galloway, et al.		
	B2	GB 2 326 896	01-06-1999	Montaron		
	B3	GB 2 320 734	07-01-1998	Coronado, et al.		
	B4	GB 2 239 918	07-17-1991	Vanderjagt		
	B5	GB 2 221 482	02-07-1990	Baker, et al.		
	B6	GB 887,150	01-17-1962	Schramm, et al.		
	B7	RU 2079633	05-20-1997	Sultan, et al.		
	B8	WO 02/29199	04-11-2002	Cook, et al.		
	B9	WO 01/60545	08-23-2001	Cook, et al.		
	B10	WO 00/77431	12-21-2000	Cook, et al.		
	B11	WO 00/37773	06-29-2000	Metcalfe, et al.		
	B12	WO 00/37772	06-29-2000	Metcalfe, et al.		
/WN/	B13	WO 99/18328	04-15-1999	Bailey, et al.		
	B14					
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Substitute for form 1449A/PTO				Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/772,217
(Use as many sheets as necessary)				Filing Date	February 2, 2004
				First Named Inventor	Richard L. Giroux
				Art Unit	3672
				Examiner Name	William P. Neuder
Sheet 6 of 6				Attorney Docket Number	WEAT/0344.P1

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
/WN/	C1	Multilateral Case History, Onshore-Nigeria, Baker Hughes, 2000		
/WN/	C2	Multilateral Case History, Offshore Norway, Baker Hughes, 1995		
/WN/	C3	TOMMY WARREN, BRUCE HOUTCHENS, AND GARRETT MADELL, Directional Drilling With Casing, SPE/IADC 78914, SPE/IADC Drilling Conference, Amsterdam, The Netherlands, February 19-21, 2003, pages 1-10		
	C4			
	C5			
	C6			
	C7			
	C8			
	C9			
	C10			
	C11			
	C12			
	C13			
	C14			

Examiner Signature	/William Neuder/	Date Considered	04/11/2007
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Substitute for form 1449A/PTO			Complete If Known		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>			Application Number	10/772,217	
Sheet	1	of	Filing Date	February 2, 2004	
			First Named Inventor	Richard L. Giroux	
			Art Unit	3672	
			Examiner Name	William P. Neuder	
			Attorney Docket Number	WEAT/0344.P1	

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
AWN/	A1	US-7,165,634	01/23/2007	Vall, III	
	A2	US-7,159,668	01/09/2007	Herrera	
	A3	US-7,147,068	12/12/2006	Vail, III	
	A4	US-7,143,847	12/05/2006	Pia	
	A5	US-7,140,455	11/28/2006	Walter, et al.	
	A6	US-7,140,443	11/28/2006	Belerbach, et al.	
	A7	US-7,137,454	11/21/2006	Pletras	
	A8	US-7,128,154	10/31/2006	Giroux, et al.	
	A9	US-7,124,825	10/24/2006	Slack	
	A10	US-7,108,080	09/19/2006	Tessari, et al.	
	A11	US-7,082,997	08/01/2006	Slack	
	A12	US-7,044,241	05/16/2006	Angman	
	A13	US-7,013,992	03/21/2006	Tessari, et al.	
	A14	US-6,892,819	05/17/2005	Cook, et al.	
	A15	US-6,758,278	07/06/2004	Cook, et al.	
	A16	US-6,742,584	06/01/2004	Appleton	
	A17	US-6,725,919	04/27/2004	Cook, et al.	
	A18	US-6,705,413	03/16/2004	Tessari	
	A19	US-6,640,903	11/04/2003	Cook, et al.	
	A20	US-6,612,383	09/02/2003	Desai, et al.	
	A21	US-6,591,905	07/15/2003	Coon	
	A22	US-6,554,063	04/29/2003	Ohmer	
	A23	US-6,497,289	12/24/2002	Cook, et al.	
	A24	US-6,401,820	06/11/2002	Kirk, et al.	
	A25	US-6,311,792	11/06/2001	Scott, et al.	
	A26	US-6,244,363	06/12/2001	McLeod	
	A27	US-6,108,200	08/22/2000	Mochvnik, et al.	
	A28	US-6,085,838	07/11/2000	Vercaemer, et al.	
	A29	US-6,059,053	06/08/2000	McLeod	
	A30	US-5,878,815	03/09/1999	Collins	
	A31	US-5,829,539	11/03/1998	Newton, et al.	
	A32	US-5,730,221	03/24/1998	Longbottom, et al.	
	A33	US-5,685,373	11/11/1997	Collins, et al.	
	A34	US-5,462,120	10/31/1995	Gondouin	
	A35	US-5,435,386	07/25/1995	LaFleur	
	A36	US-5,394,823	03/07/1995	Lenze	
AWN/	A37	US-5,311,952	05/17/1994	Eddison, et al.	

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				Application Number	10/772,217
				Filing Date	February 2, 2004
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				Art Unit	3672
				Examiner Name	William P. Neuder
Sheet	2	of	2	Attorney Docket Number	WEAT/0344.P1

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
/WN/	A38	US- 5,271,472	12/21/1993	Leturno	
	A39	US- 4,770,259	09/13/1988	Jansson	
	A40	US- 4,708,202	11/24/1987	Sukup, et al.	
	A41	US- 4,182,423	01/08/1980	Ziebarth, et al.	
	A42	US- 3,835,910	02/03/1978	Gaudy, et al.	
	A43	US- 3,656,564	04/18/1972	Brown	
	A44	US- 3,273,660	09/20/1968	Jackson, et al.	
	A45	US- 3,001,585	09/26/1961	Shiplet	
	A46	US- 2,696,387	12/07/1954	Robishaw	
	A47	US- 2005/0077048	04/14/2005	Hall	
	A48	US- 2005/0011643	01/20/2005	Slack, et al.	
	A49	US- 2004/0182579	09/23/2004	Steele, et al.	
	A50	US- 2003/0183424	10/02/2003	Tulloch	
/WN/	A51	US- 2003/0042022	03/08/2003	Lauritzen, et al.	
	A52	US-			
	A53	US-			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)			
/WN/	B1	GB 733,596	07/13/1955	Cochran, et al.	
/WN/	B2	WO 00/50730	08/31/2000	Tessari	
	B3				
	B4				
	B5				
	B6				
	B7				
	B8				
	B9				
	B10				

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